Title: Engine Tanker Standard {NIMS Type I Engine & II/I Tanker}

WCVFRA Approval Date: 09/15/2016
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SOG Number: 200-05  Supersedes Date: 01/15/2015

APPARATUS MINIMUM STANDARD:

_____ 1 Washington County Fire & Rescue Mobile Radio {w/inside speaker & mike or wireless capabilities}
   {A dedicated driver’s portable will meet the outside speaker requirement}

_____ 3 Washington County Fire & Rescue portable radios

_____ x Audible back-up alarm

_____ x Chevron's {After January 1, 2009} – {See Notes 1-5 below}

_____ x DOT Inspection – {See Note 6 below}

_____ 3 DOT warning reflective triangles

_____ 1 Emergency Response Guide {ERG} - Current Edition

_____ 1 Evacuation horn mounted/secured in area of driver’s seat or cab area

_____ x GVWR - Copy of certified weight slip of the apparatus that detail the actual weight of
   the (1) front axle, (2) rear axle and (3) total vehicle weight. These weights will be taken
   with all equipment on unit/mounted. Preferred to have National Certified Scales used.
   {Weight slip will be required when 1st inspected and any change in service delivery,
   recommended for every 3rd year}

_____ x Hearing protection for all riding positions, sterile soft ear plugs are acceptable – {shall be in
   cab with personnel}

_____ x Personnel Accountability Collector ring(s) for the PAT’s with the unit designation attached
   to it

_____ x Registered as an Emergency Vehicle with the State of Maryland

_____ x Safety Equipment per NFPA 1500 & 1901 – {See Note 7 below}

_____ x Safety Glasses, approved - one for each ridding position {i.e. ANSI Z87.1}

_____ x Safety restraints for all riding positions
Traffic Vests (1) for each seating position, each vest to comply with ANSI/ISEA 207, Standard for High-Visibility Public Safety Vests, and have a five-point breakaway feature that includes two at the shoulders, two at the sides, and one at the front.

Vehicle Registration Card

Warning signals, {Light, bell, siren, whistle} audible and visible in proper working condition

Washington County Risk Management Accident Information Packet

Wheel chocks – {mounted in readily accessible location(s)}

**Electrical Items:**

All plugs & receptacles will be standard NEMA L515 minimum, NEMA L520 {after 01/15/2015}

- Electrical cord reel, 100’ {10-3 ga.}

- Electrical junction box

- Generator, 5,000 watt rating {5kw}

- Household/fire service pigtail adapters {3 prong twist 14-3ga.}
  2-male house to female fire service receptacle
  2-female house to male fire service receptacle

- Portable electrical cord reels, 50’ {14-3ga.}

- Portable flood lights, 500 watt or equivalent

- Portable hand lights, fire service rated - one for each riding position

- Smoke Ejector or PPV Fan {Minimum 5,000 CFM's}

- Stationary lighting, 1000 watt or equivalent

**Equipment Minimum's:**

- Axe, flathead

- Axe, pickhead

- Bolt cutter, 24”

- Can of fluorescent orange spray paint {building ID or safety zones}

- Extinguisher, 15lb approved operational CO2

- Extinguisher, water 2 ½ gallon approved

- Extinguisher, dry chemical 20lb rating
1 First Aid Kit – {Meets MIEMSS BLS Ambulance first aid kit}

8 Flares, 30 minute

2 Floor Runners, 8’ length {standard size}

2 Forcible entry tools, 30” {Halligan Bar, Punch Bar, Pry Bar, or Equivalent}

2 Hydrant Wrenches

1 “K” tool door opener or equivalent {i.e. hydra ram, rabbit tool, Weddle tool, etc}

1 Ladder - Extension – 24’

1 Ladder - Folding – 10’

1 Ladder - Roof straight with folding hooks – 14’

1 Pike pole/APH {All purpose hook} 6’

1 Pike pole/APH {All purpose hook} 8’

1 Rubber Mallet

2 Salvage covers {12’x12’} minimum

x SCBA approved 30 minute {minimum} w/spare bottle for each riding position
{Does not include front facing flip down seats}

1 Shovel – Flat or Scoop

1 Sledge hammer or equivalent, 8lb.

4 Spanner wrenches – combination {with mounted bracket}

1 Street broom

5 Traffic cones – fluorescent orange not less than 28” in height, each equipped with a 6” retroreflective white band no more than 4” from top of the cone, and an additional 4” retroreflective white band 2” below the 6” band.
## Fire Suppression Function & Equipment:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Adapter - 1 ½” double female</td>
</tr>
<tr>
<td>1</td>
<td>Adapter - 1 ½” double male</td>
</tr>
<tr>
<td>2</td>
<td>Adapter - 2 ½” double females</td>
</tr>
<tr>
<td>2</td>
<td>Adapter - 2 ½” double males</td>
</tr>
<tr>
<td>1</td>
<td>Adapter – 2 ½” female to 1 ½” male</td>
</tr>
<tr>
<td></td>
<td>Assorted - LDH adapters</td>
</tr>
<tr>
<td></td>
<td>Adapter – LDH Siamese</td>
</tr>
<tr>
<td>2</td>
<td>Direct tank rear fill, 3” minimum {May substitute one (1) 4” or larger direct fill}</td>
</tr>
<tr>
<td></td>
<td>The external fill connection shall permit a minimum filling rate of 1000 gpm from sources external to the unit</td>
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<tr>
<td></td>
<td>Each tank connection shall be capable of emptying 90 percent of the tank capacity at a minimum average rate of 1000 gpm with the apparatus on level ground</td>
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<tr>
<td></td>
<td>The tank connection(s) shall be capable of allowing water to be transferred from the tank to an external use to the right, left, and rear of the fire apparatus</td>
</tr>
<tr>
<td>1</td>
<td>Adapter – 2 ½” female to LDH your unit is carrying</td>
</tr>
<tr>
<td>1</td>
<td>Adapter – 2 ½” male to LDH your unit is carrying</td>
</tr>
<tr>
<td>1</td>
<td>Adapter - Double gated wye 2 ½” x (2) 1 ½”</td>
</tr>
<tr>
<td>1</td>
<td>Adapter - Gate value 2 ½”</td>
</tr>
<tr>
<td>1</td>
<td>Hard/flex suction hose 20 ft. &amp; strainer with hydrant pump intake</td>
</tr>
<tr>
<td>1</td>
<td>Soft sleeve hose 20 ft. with hydrant-pump intake</td>
</tr>
<tr>
<td></td>
<td>Hose, 1.5” minimum, capable of flowing at least 125 GPM – 500 ft. <strong>{Pre Connected}</strong></td>
</tr>
<tr>
<td></td>
<td>Hose, 2” minimum, capable of flowing at least 250 GPM – 200 ft. <strong>{Pre Connected}</strong></td>
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<tr>
<td></td>
<td>Hose, 3” minimum – 1200 ft. supply line <strong>{LDH recommended}</strong></td>
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<tr>
<td>4</td>
<td>Ladder strap, chain, rope or webbing hose tool</td>
</tr>
<tr>
<td>3</td>
<td>Nozzles 1 ½”, shutoff type, with combination fog &amp; straight stream, 125 GPM</td>
</tr>
<tr>
<td>1</td>
<td>Nozzle 2 ½” or equivalent, shutoff type, with combination fog &amp; straight stream, 250 GPM</td>
</tr>
<tr>
<td>1</td>
<td>Master stream device {Only one (1) required per department}</td>
</tr>
</tbody>
</table>
______ x  Pump Capacity, 1000 GPM minimum

______ 2  Ropes – 50’ – Utility

______ 1  Tank Capacity, 1500 Gallon minimum

______ 1  Portable tank with capacity of holding the water of the Engine/Tanker minimum
**Tool Box Minimum Standard:**

- 1 Allen wrench - Set
- 1 Aviator/Tin snips
- 1 Chisel, Cold 3/4"
- 1 Crescent wrench, 08"
- 1 Crescent wrench, 10"
- 1 Crescent wrench, 12"
- 1 Hacksaw, w/6 extra high speed blades
- 1 Hammer, 2 lb.
- 1 Pipe Wrench, 8" or 10"
- 1 Pipe wrench, 14"
- 1 Pliers regular 6"
- 1 Pliers Channel Locks, 10"
- 1 Pliers diagonal cutters
- 1 Pliers Lineman's, 9"
- 1 Pliers needle nose, 6"
- 2 Screwdrivers Phillips head
- 2 Screwdrivers Standard
- 1 Sockets metric 3/8" drive regular and deep well sockets
- 1 Sockets standard 3/8" drive regular and deep well
- 1 Vise grips, 10" self-locking
- x Wrenches, combination - assorted sizes {standard & metric}

**Optional Recommended Equipment:**

- 1 Adapter - 6" double female for dry hydrants
- x CAT Scale weight completed every 3 years
- x Current Preemption Device to meet Washington County System {Opticom™, Tomar, etc.}
- x Washington County Fire & Rescue portable radios - one for each riding position
Foot Notes:

1. Chevron's {After January 1, 2009} {NFPA-1901-2009}

2. 15.9.3.1* A retroreflective stripe(s) shall be affixed to at least 50 percent of the cab and Body length on each side, excluding the pump panel areas, and at least 25 percent of the width of the front of the apparatus.

3. 15.9.3.2 At least 50 percent of the rear-facing vertical surfaces, visible from the rear of the apparatus, excluding any pump panel areas not covered by a door, shall be equipped with retroreflective striping in a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees.

4. 15.9.3.3.1 All retroreflective materials used to satisfy the requirements of 15.9.3.1 that are colors not listed in ASTM D 4956, Section 6.1.1, shall have a minimum coefficient of retro reflection of 10 with observation angle of 0.2 degrees and entrance angle of −4 degrees.

5. **NO WAIVER** will be accepted for Reflective Striping {NFPA-1901-2009}

6. The vehicle shall meet D.O.T. specifications and shall not exceed manufacturer's G.V.W. The vehicle shall meet all codes of the Maryland Motor Vehicle Administration or its successors. All apparatus shall be in a preventive maintenance inspection program. Records of inspection under this regulation shall be kept at the location where the vehicle is garaged, assigned, or maintained. The vehicle shall be equipped with NFPA Standards for emergency warning lights and emergency audible devices, including audible back-up alarm, and safety devices. If canopy cab is present the entrance must be equipped with a safety device, i.e.; door, gate, bar, chain, etc. The vehicle must meet MSFA Standards, which are primarily based on NFPA 1901.

7. All riding personnel shall be equipped with conforming NFPA 1500 equipment. All Apparatus shall conform to the latest edition of NFPA 1901 when it concerns safety and any other applicable NFPA apparatus standards {Standard written under NFPA 1901-2009}. All equipment shall be securely mounted on apparatus.

8. Areas highlighted in gray will not be enforced until the unit is rehabbed or replaced

x All listed quantities are the minimum required to meet this standard, departments may exceed any or all of these quantities.

Inspected by: ___________________________ Date: ________________